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Drugs containing peptide(s) with specific affinity to phospholipid(s) -
such as phosphatidyl serine, for treatment of blood coagulation,
inflammatory and immunological disorders

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
WO 9829453	A1	19980709	WO 98JP2	A	19980105	C07K-019/00	199833 B

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Patent Details:

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Designated States (National): CA JP KR US

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Abstract (Basic): WO 9829453 A

Drug compositions contain as active component a peptide which has
specific affinity to particular phospholipids (such as phosphatidyl
ethanolamine or phosphatidyl serine), especially to phospholipids which
constitute a lipid bilayer of cellular cortex and of which the
concentration in the bilayer increases in cells which are abnormal
(e.g. through injury, denaturation or activation).

In particular, the peptide contains a sequence having phospholipid
affinity and a structure of formula (I).

(A1)a-(A2)b-(A3)c (I)

(A1) is one of two specific (130 and 30 amino acid) sequences given
in the specification;

(A2) and (A3) are TRYLRIHQPQSWVHQIALR (II), LRYLRIHQPQSWVHQIALR or
MEVLGCEAQNLY (III);

a = 0-5;

b = 1-5, and

c = 0-5.

Preferred are the formulae A1-A2-A3, A2-A3, A2-A2-A3, A2-A2-A2-A3
or A2-A2 (especially A2-A2-A3, A2-A2-A2-A3 or A2-A2).

The sequence is linked to a peptide such as a blood factor,
especially thrombo-modulin, urina-statin or membrane cofactor protein.

Also claimed are:

(1) peptides of sequence (I), and

(2) DNAs encoding these peptides or encoding peptides with
phospholipid affinity which incorporate them as part of the sequence.

USE - The drugs are used for the treatment and prevention of
diseases involving blood coagulation, inflammatory and immunological
disorders.

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Derwent Class: B04; D16

International Patent Class (Main): C07K-019/00

International Patent Class (Additional): A61K-047/48; C07K-014/745;
C12N-015/12; C12P-021/02; C12R-001-91